

VALVE ELECTRONIC

CV 1684

GENERAL POST OFFICE: E-IN-C (W)

(POVT. 116)

| | | |
|---|------------------------------------|----------------------------|
| Specification: G.P.O./CV1684/Issue 1 Dated: 21.2.47 To be read in conjunction with K 1001 | <u>SECURITY</u> | |
| | <u>Specification</u> Restricted | <u>Valve</u> Restricted |

→ indicates a change

| | | | | |
|-------------------------------------|-------------|--------------------------------------|-------------------|-----------|
| <u>TYPE OF VALVE:</u> Pentode | | <u>MARKING</u> See K1001/4 | | |
| <u>CATHODE:</u> Indirectly heated | | | | |
| <u>ENVELOPE:</u> Unmetallised glass | | | | |
| <u>PROTOTYPE:</u> APP4C | | | | |
| <u>RATING</u> | | <u>BASE</u> British 7-pin (B7) | <u>CONNEXIONS</u> | |
| | | Note | Pin | Electrode |
| Heater voltage | (V) 4.0 | A | 1 | G3 |
| Nominal heater current | (A) 2.0 | | 2 | G1 |
| Max. anode voltage | (V) 250 | | 3 | G2 |
| Max. screen voltage | (V) 250 | | 4 | Heater |
| Max. anode dissipation | (W) 8.0 | | 5 | Heater |
| Mutual conductance | (mA/V) 10.0 | | 6 | Cathode |
| | | | 7 | Anode |
| | | <u>DIMENSIONS</u> See K1001/A1/D1 | | |
| | | Dimension | Min. | Max. |
| | | A (mm) | - | 137 |
| | | B (mm) | - | 51 |

NOTEA. Measured with $V_a = V_{g2} = 250$, and $V_{g1} = -5$

TESTS

To be performed in addition to those applicable in K1001

| | TEST CONDITIONS | | | | | TEST | LIMITS | | No. Tested | Note |
|-----|-----------------|-----|------|------|-----|-----------------|--------|------|------------|------|
| | Vh(V) | Va | Vg1 | Vg 2 | Vg3 | | Min. | Max. | | |
| (a) | 4.0 | - | - | - | - | Ih (A) | 1.8 | 2.2 | 100% | |
| (b) | 4.0 | 250 | -14 | 250 | 0 | Ia (mA) | - | 2.0 | 100% | |
| (c) | 4.0 | 250 | -7 | 250 | 0 | Ia (mA) | 15.5 | 39.5 | 100% | |
| (d) | 4.0 | 250 | -3.5 | 250 | 0 | Ia (mA) | 50.0 | 80.0 | 100% | |
| (e) | 4.0 | 250 | -6 | 250 | 0 | Reverse Ig (μA) | - | 1.5 | 100% | |

